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Descrizione fisica	1 online resource (2 unnumbered pages) : color illustrations
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Autore	Grace David <1970->
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ISBN	9786612783531 9781119957553 1119957559 9781282783539 128278353X 9780470971840 0470971843 9780470971833 0470971835
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Descrizione fisica	1 online resource (400 p.)
Altri autori (Persone)	MohorcicMihael
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>1. INTRODUCTION -- 1.1. Introduction -- 1.2. History -- 1.3. Wireless communications in a HAP environment -- 1.4. Candidate standards for provision of services and applications from HAPs -- 1.5. Overview of past and present HAP related projects, trials and development plans -- 1.6. References -- 2. AERONAUTICS AND ENERGETICS -- 2.1. Operating environment and related challenges -- 2.2. Types of airborne vehicles used for HAPs -- 2.3. Power subsystem alternatives -- 2.4. Flight / altitude control -- 2.5. Typical characteristics of HAP aircraft and airships -- 2.6. References -- 3. OPERATING SCENARIOS AND REFERENCE ARCHITECTURES -- 3.1. Operating scenarios -- 3.2. Antenna requirements and related challenges -- 3.3. System and network architecture of HAP-based communication systems -- 3.4. References -- 4. APPLICATIONS AND BUSINESS MODELLING -- 4.1. Introduction -- 4.2. Applications and services -- 4.3. Business Model Introduction -- 4.4. Service Provider Centric Models -- 4.5. HAP Operator Centric Model -- 4.6. Risk Assessment -- 4.7. References -- 5. FUTURE DEVELOPMENT OF HAPs AND HAP-BASED APPLICATIONS -- 5.1. Trends in aeronautical development -- 5.2. HAP roadmaps for different types of applications -- 5.3. Telecommunication missions -- 5.4. References -- 6. HAP SYSTEM OPERATING ENVIRONMENT -- 6.1. Operating environment and related limitations -- 6.2. Propagation channel modelling -- 6.3. HAP RF propagation channel modelling -- 6.4. Conclusion -- 6.5. References -- 7. FSO IN HAP-BASED COMMUNICATION SYSTEMS -- 7.1. Applicability of FSO technology to HAP networks -- 7.2. Physical layer aspects for FSO links in HAP networks -- 7.3. Free space optics for optical transport networks -- 7.4. References -- 8. ADVANCED COMMUNICATION TECHNIQUES AS ENABLERS FOR HAP-BASED COMMUNICATION SYSTEMS -- 8.1. Modern wireless system design concepts -- 8.2. Diversity techniques -- 8.3. Multiple input multiple output systems -- 8.4. Adaptive coding modulation schemes -- 8.5. Advanced radio resource management techniques. 8.6. References -- 9. MULTIPLE HAP NETWORKS -- 9.1. Why multiple HAP constellations? -- 9.2. Multiple HAP constellation planning -- 9.3. User Antenna Pointing Error in Multiple HAP Systems -- 9.4. Two Ring Constellation Design for Multiple HAP Systems -- 9.5. Constraints of Two-ring Constellation Designs -- 9.6. References -- 10. NETWORKING IMPLICATIONS OF USING MULTIPLE HAP CONSTELLATIONS -- 10.1. Network protocols -- 10.2. Mobility management in HAP-based communication systems -- 10.3. Mobility and Backhaul Load Reduction Techniques -- 10.4. References -- Index.</p>
Sommario/riassunto	<p>In this book, the authors provide a thorough overview of the state of the art in high-altitude platform (HAP) enabling technologies, addressing recent research activities and results. In addition, the book explores the enabling technologies and economics of HAP-based communication systems, including issues related to aeronautics, applications and business modelling, as well as future trends. Furthermore, the authors discuss broadband wireless communications from HAPs, the operating environment, and advanced communication techniques for efficient radio link resource management. Similarly, the authors complement radio frequency (RF) dominated issues with free</p>

space optical communications in the HAP operating environment, focusing on physical and networking layers. Finally, the book addresses the multiple HAP constellations planning procedure and discusses the networking implications of using multiple HAPs. Key Features: . Focuses on placing HAPs in the perspective of current and future broadband wireless communication systems. Offers an overview of the constraints affecting HAP-based broadband communications. Provides a thorough overview and state of the art of the HAP enabling technologies, including recent research activities and future directions. Examines the operating environment, advanced communication techniques for efficient radio link resource management, and suitable antennas. Addresses multiplatform constellations, presenting the multiple HAP constellation planning procedure and discussing the networking implications of using multiple HAPs This book will be of valuable interest to researchers and practitioners in the areas of wireless communications, satellite communications and high-altitude platforms, and development engineers involved in the design and development of HAP systems.
